INFORMATION REPORT INFORMATION REPOR

CENTRAL INTELLIGENCE AGENCY

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1. The depth finder produced at Koepenick radio engineering plant and designated H3-5P consists of six seperate units, namely the depth finder proper, the echograph (recorder), amplifier, impulsing circuits, regulating resistance and filter. Auxiliary units are one transformer and two oscillators. The outer measurements of the casings are as follows:

 echograph
 300 x 470 x 270 mm

 depth finder
 350 x 240 x 190 mm

 amplifier
 290 x 250 x 170 mm

 impulsing circuit
 300 x 280 x 200 mm

2. The instrument is capable of the following ranges: echograph

Tumbler switch position	Rotary switch position	Ranges
0100	I	060 m
<u> </u>	II	40100 m
1	III	90150 m
	IV	140200 m
t	V	180240 m
0500	\mathbf{I}_{\cdot}	0300 m
N .	II	40340 m
*	III	90390 m
	IV	140440 m
.	V	180480 m
W - 11 40 5		

Depth finder

2 ranges I Othrough 1.00 m II O through 500 m

3. The chassis are suspended in casings provided with rubber buffers. The spring suspension is rather hard. The resistances have quite unusual values, such as 9.5 K-Ohm, 83 K-Ohm etc. Some of the resistances are designated in colored code, others are enlettered in clear. The specifications and measurements of the condensors and resistances agree with those generally found in the GDR. Larger condensors are designed as electrolytes, smaller ones are designed as MP-type or paper condensors; the latter condensors are mainly used as coupled-condensors

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(Koppelkondensatoren). The condensors are enlettered B 3 P. The inner cabling of the set is made of "marine inner cabling" (MIL). All individual parts are designed corresion-proof, or they are nickleccated or treated by an sloal process.

4. The amplifier incorporates a tuned input circuit, a resonance amplifier stage, a resistance amplifier stage, a thyratron-final stage for the red light indicator device, and a pentode final stage for the echograph recorder. The amplifier is alternately used for the echograph or for the depth finder proper and is equipped with the following tubes:

2 x 6)+(8 1 = 0,1/1,3 (Thyratron) (final tube) 1 x 5 4 4 C (two-way rectifier)

- 5. The echograph incorporates the recording device. 2 A rotating arm performs the recording operation. The feed of paper is vertical. The side wall of the casing of the echograph carries the tumbler switch for the cource recording from 0 through 100 m and 0 through 500 m; and the front plate has a rotary switch that is used as a stage switch.
- 6. The set-up and operating procedure of the impulsing circuit is the same as with all equipment produced at the Koepenick radio engineering plant. It is equipped with the following tubes: 3x 5 U 4 C

condensor (Stosskondensator) : 1.50 F / 1.500 V

Voltage

1.000 V

resonance frequency 22 KHz

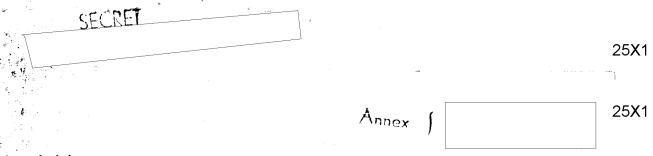
7. For the red light indicating device, 0 through 100 and 0 through 500 m ranges can be selected by means of a tumbler switch.

Comment. For switching diagram and factory plate of the H 3 - 5 P set see Annex 1.

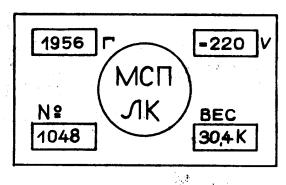
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20 Comment. For sketch of the recording device of the echograph see Annex 2

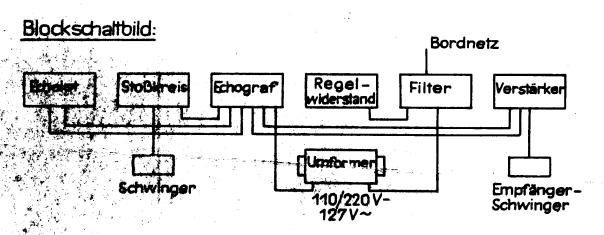
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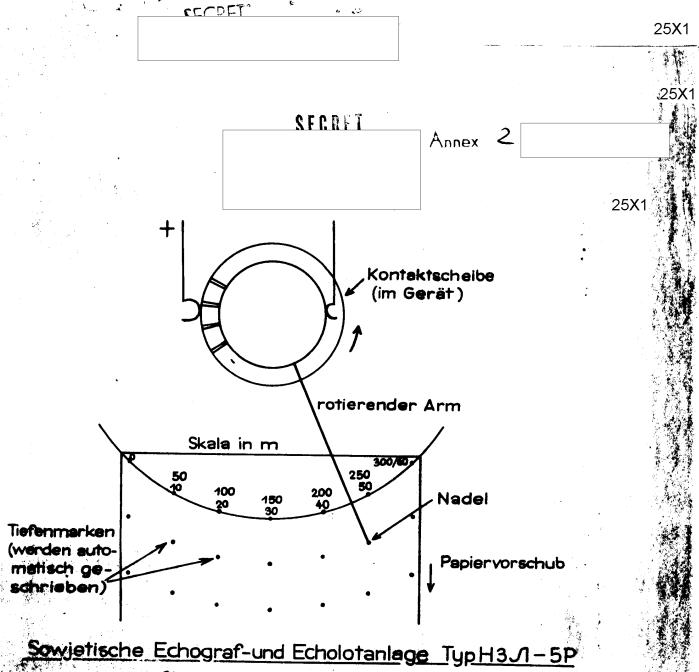


ohne Maßstab



Sowjetische Echograf-und Echolotanlage Typ H3/1-5P

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Skizze des Schreibgerätes.

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